

CLAIMS

1. A device for lock-fixing an apparatus (1) designed
to be mounted in a rack (2) comprising
5 - first (13) and second (22) fixing elements
respectively secured to the apparatus and the
rack, the first element being moved by operating
a handle (14, 14a) in order to interact with the
other element to fix the apparatus in the rack,
10 - a mechanism (15, 15a) for locking said handle,
the device being characterized in that the handle
(14) has a gripping member (141, 141a) connected
to a handle body (142) situated on one side (12)
of the apparatus and in that the locking mechanism
15 comprises a sliding hook (151) serving as an
abutment to said handle body in the locked
position.
2. The fixing device as claimed in claim 1,
20 characterized in that the hook (151) has a bearing
plane (157) interacting with a bearing plane (146)
of the handle body to serve as an abutment.
3. The fixing device as claimed in claim 2,
25 characterized in that said bearing planes are in a
plane parallel to the sliding axis of the hook.
4. The fixing device as claimed in claim 2,
30 characterized in that said bearing planes are in a
plane beveled relative to the sliding axis of the
hook.
5. The fixing device as claimed in one of claims 2 to
35 4, characterized in that the bearing plane (146)
of the handle body extends longitudinally, its
longitudinal dimension being greater than that of
the bearing plane (157) of the hook.

6. The fixing device as claimed in one of the preceding claims, characterized in that the locking mechanism (15) comprises a compression spring (152) associated with an abutment (153) used to hold the hook in the abutment position for the handle body in the locked position of the handle.
7. The fixing device as claimed in claim 6, characterized in that the apparatus having a front face with a rim arranged on at least one of its sides, the sliding hook and the compression spring are integrated into a housing (110) formed in said edge.
8. The fixing device as claimed in claim 7, characterized in that the apparatus having a front face rimmed by a frame (11), said rim forms one side of the frame.
9. The fixing device as claimed in one of claims 6 to 8, characterized in that the locking mechanism also comprises a pushbutton (154) secured to the hook and situated on the front face of the apparatus allowing a user to retract the sliding hook to unlock the handle.
10. The fixing device as claimed in claim 9, characterized in that the pushbutton (154) may be moved in a housing (111) one edge of which forms said abutment (153) for the sliding hook.
11. The device as claimed in one of claims 9 or 10, characterized in that the locking mechanism comprises a plate (155) for closing said housing.
12. The fixing device as claimed in one of claims 6 to 11, characterized in that a slope (156) is made on

the sliding hook (151) allowing said hook to be retracted during locking of the handle.

- 5 13. The fixing device as claimed in one of the preceding claims, characterized in that the handle body is secured to the side of the apparatus via a rotating pivot (143).
- 10 14. The fixing device as claimed in claim 13, characterized in that the first fixing element (13) is supported by one end of the handle body, opposite relative to said pivot of the end to which the gripping member (141) is connected.
- 15 15. The fixing device as claimed in claim 14, characterized in that the first fixing element (13) and the second fixing element (22), secured to the rack, have complementary shapes making it possible to fasten them to one another when the
20 apparatus is pushed into the rack to be fixed.
- 25 16. The fixing device as claimed in claim 15, characterized in that the first element (13) is formed of a hook and the second element (22) is formed of a projecting pin (221) that can be moved along a slide (222) formed in the rack and is associated with a spring (223) calibrated so that the operation of the handle causes said calibrated spring to be placed in tension.
- 30 17. The fixing device according to one of the preceding claims, characterized in that it comprises first fixing elements on two opposite sides of the apparatus, these first fixing
35 elements being moved by the operation of two handles (14, 14a) in order to interact with second fixing elements secured to the rack, and in that it comprises two locking mechanisms (15, 15a) substantially identical for each of said handles.

18. The fixing device according to claim 17,
characterized in that the gripping members (141,
141a) of the two handles join together to form a
5 central bar (145) allowing the two handles to be
operated simultaneously.

19. A rack equipped with at least one apparatus fixed
by means of a fixing device according to one of
10 the preceding claims, characterized in that it
has, on each of its side walls (21) situated
facing one side of the apparatus (12) along which
is situated a handle body (142), an area of
reduced thickness allowing said handle body to be
15 housed.

Modified CLAIMS

1. A device for lock-fixing an apparatus (1) comprising a front face (10), and at least two lateral sides (12) designed to be mounted in a rack (2) comprising side walls (21) along which the lateral sides (12) of the apparatus (1) are inserted, said device comprising:
- first (13) and second (22) fixing elements respectively secured to the two lateral sides (12) of the apparatus and to the side walls (21) of the rack, the first element being moved by operating a handle (14, 14a) in order to interact with the other element to fix the apparatus in the rack,
 - a mechanism (15, 15a) for locking said handle,
 - the handle (14) having a gripping member (141, 141a) connected to a handle body (142) situated on a lateral side (12) of the apparatus,
- characterized in that:
- the locking mechanism comprises a sliding hook (151) situated on one of the lateral sides (12) close to an edge of the front face (10) and a compression spring (152), arranged so that, in the locking phase,
 - the handle being operated by the user in a rotary movement to fix the apparatus, the handle body (142) moves along the lateral side comprising the hook (151), retracting said hook (151), thus freeing said handle (14) to pass,
 - after the passage of the handle, the compression spring (152) repositions the hook (151) thus serving as an abutment to said handle body in the locked position.
2. The fixing device as claimed in claim 1, characterized in that the hook (151) has a bearing

plane (157) interacting with a bearing plane (146) of the handle body to serve as an abutment.

- 5 3. The fixing device as claimed in claim 2, characterized in that said bearing planes are in a plane parallel to the sliding axis of the hook.
- 10 4. The fixing device as claimed in claim 2, characterized in that said bearing planes are in a plane beveled relative to the sliding axis of the hook.
- 15 5. The fixing device as claimed in one of claims 2 to 4, characterized in that the bearing plane (146) of the handle body extends longitudinally, its longitudinal dimension being greater than that of the bearing plane (157) of the hook.
- 20 6. The fixing device as claimed in one of the preceding claims, characterized in that the locking mechanism (15) comprises a compression spring (152) associated with an abutment (153) used to hold the hook in the abutment position for the handle body in the locked position of the handle.
- 25 7. The fixing device as claimed in claim 6, characterized in that the apparatus having a front face with a rim arranged on at least one of its sides, the sliding hook and the compression spring are integrated into a housing (110) formed in said edge.
- 30 8. The fixing device as claimed in claim 7, characterized in that the apparatus having a front face rimmed by a frame (11), said rim forms one side of the frame.
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- 5 9. The fixing device as claimed in one of claims 6 to 8, characterized in that the locking mechanism also comprises a pushbutton (154) secured to the hook and situated on the front face of the apparatus allowing a user to retract the sliding hook to unlock the handle.
- 10 10. The fixing device as claimed in claim 9, characterized in that the pushbutton (154) may be moved in a housing (111) one edge of which forms said abutment (153) for the sliding hook.
- 15 11. The device as claimed in one of claims 9 or 10, characterized in that the locking mechanism comprises a plate (155) for closing said housing.
- 20 12. The fixing device as claimed in one of claims 6 to 11, characterized in that a slope (156) is made on the sliding hook (151) allowing said hook to be retracted during locking of the handle.
- 25 13. The fixing device as claimed in one of the preceding claims, characterized in that the handle body is secured to the side of the apparatus via a rotating pivot (143).
- 30 14. The fixing device as claimed in claim 13, characterized in that the first fixing element (13) is supported by one end of the handle body, opposite relative to said pivot of the end to which the gripping member (141) is connected.
- 35 15. The fixing device as claimed in claim 14, characterized in that the first fixing element (13) and the second fixing element (22), secured to the rack, have complementary shapes making it possible to fasten them to one another when the apparatus is pushed into the rack to be fixed.

16. The fixing device as claimed in claim 15,
characterized in that the first element (13) is
formed of a hook and the second element (22) is
5 formed of a projecting pin (221) that can be moved
along a slide (222) formed in the rack and is
associated with a spring (223) calibrated so that
the operation of the handle causes said calibrated
spring to be placed in tension.
- 10 17. The fixing device according to one of the
preceding claims, characterized in that it
comprises first fixing elements on two opposite
sides of the apparatus, these first fixing
15 elements being moved by the operation of two
handles (14, 14a) in order to interact with second
fixing elements secured to the rack, and in that
it comprises two locking mechanisms (15, 15a)
substantially identical for each of said handles.
- 20 18. The fixing device according to claim 17,
characterized in that the gripping members (141,
141a) of the two handles join together to form a
central bar (145) allowing the two handles to be
25 operated simultaneously.
19. A rack equipped with at least one apparatus fixed
by means of a fixing device according to one of
the preceding claims, characterized in that it
30 has, on each of its side walls (21) situated
facing one side of the apparatus (12) along which
is situated a handle body (142), an area of
reduced thickness allowing said handle body to be
housed.